

INTRODUCING

SFP-DD CAGES AND CONNECTORS

- 2-lane interconnect 28G NRZ and 56G PAM-4 signal
- Backwards compatible interfaces enable easy integration
- Industry leading thermal management



TE Connectivity's (TE) small form-factor pluggable double density (SFP-DD) products for I/O interconnect include cages, surface mount connectors and cable assemblies. This product portfolio was developed in accordance with the SFP-DD multi-source agreement (MSA) specification. SFP-DD is one of the smallest industry standard small form-factors today which enables data center systems to operate at doubled port density with faster data transfer rates. Our SFP-DD connectors and cages are also mechanically interoperable with module components produced by different manufacturers. They can free up more space in application as compared to QSFP28/QSFP56 solution.

APPLICATIONS

- Switches
- Servers
- Routers
- Storage equipment
- Base stations
- Other applications that require high speed input/output data transmission

TARGET MARKETS

- Networking
- Data Center
- Wireless Infrastructure

ELECTRICAL

- Operating Frequency: 28GHz NRZ, 56GHz PAM4
- Nominal Impedance: 100 ohms
- SI Performance:
 - 28GHz: follows IEEE802.3 bj
 - 56GHz: follows IEEE802.3 cd
- Temperature Rating: -55°C to +85°C

MATERIALS

- Inner contact, NiCu
- Housing, LCP
- Outer body, Stainless

KEY BENEFITS

- 2-lane interconnect with higher density and better signal integrity than SFP28/56 - Concept leverages QSFP-DD surface mount technology (SMT) design. Compared to SFP28/SFP56 solutions, SFP-DD cages and connectors provide double the density and double the speed, reaching up to 112 Gbps via two channels.
- Backward-compatible
- Space savings - Free up more space of PCB and faceplate as compared to QSFP28/QSFP56 solution. One port with upgraded functions: extend to two channels 28G NRZ and 56G PAM-4
- Industry leading thermal management - Offers superior thermal management with TE's innovative thermal bridge technology.
- Offer design flexibility with customized solutions.

STANDARDS & SPECIFICATIONS

- Product Spec: 108-130026
- Application Spec: 114-60027

MECHANICAL

- 100 mating cycles per EIA-364-9
- No discontinuities of 1 microsecond or longer duration vibration per EIA-364-28

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